



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

MISSOURI
BOTANICAL GARDEN.
FIFTEENTH ANNUAL REPORT.

ST. LOUIS, MO. ·
PUBLISHED BY THE BOARD OF TRUSTEES.
1904.



MUSEUM GATE HOUSE—FROM THE LAWN.

BOARD OF TRUSTEES OF THE MISSOURI BOTANICAL GARDEN.

President
RUFUS J. LACKLAND.

Vice-President,
DAVID F. KAIME.

EDWARD C. ELIOT.¹

JOHN GREEN, M. D.

GEORGE C. HITCHCOCK.²

LEONARD MATTHEWS.

WILLIAM H. H. PETTUS.

JOHN F. SHEPLEY.

DAVID S. H. SMITH.

EDWARDS WHITAKER.

WINFIELD S. CHAPLIN.

Chancellor of Washington University.*

EDWIN HARRISON,³

President of The Academy of Science of St. Louis.*

DANIEL S. TUTTLE,

Bishop of the Diocese of Missouri.*

ROLLA WELLS,

Mayor of the City of St. Louis.*

CALVIN M. WOODWARD,⁴

President of the Board of Public Schools of St. Louis.*

A. D. CUNNINGHAM, Secretary.

**Ex-officio.*

¹ Elected November 11, 1903, to fill the vacancy caused by the death, on October 6th, of Dr. J. B. Johnson, one of the Trustees named by Mr. Shaw.

² Elected November 11, 1903, to fill the vacancy caused by the death, on June 9th, of Mr. Joseph Branch, one of the Trustees named by Mr. Shaw.

³ Elected President of The Academy of Science, February 1, 1904, to succeed Mr. Henry W. Eliot, who had held that office for two years.

⁴ Elected President of the Board of Public Schools of St. Louis, October 13, 1903, to succeed Dr. William Taussig, who had held that office for one year.

P R E F A C E.

Under direction of the Board of Trustees, the fifteenth annual report of the Missouri Botanical Garden is presented to the public.

The fourteenth volume was issued on October 8th, 1903, on which date separates of Mr. Rehder's monograph of *Lonicera* were also distributed.

These reports are sent to scientific institutions and journals in exchange for publications or specimens desirable for the Garden, and, when possible, reprints of the botanical articles they contain are presented to botanists occupied with a study of the subjects they refer to. Any of the Garden publications not out of print may be purchased at approximately the cost of publication from A. I. Eriksson, Tufts College, Mass.; R. Friedländer & Sohn, Berlin, Germany; W. Wesley & Son, London, England; or the undersigned.

WILLIAM TRELEASE.

St. Louis, Mo., February 15, 1904.

CONTENTS.

	PAGE.
1. REPORTS FOR THE YEAR 1903: —	
a. Report of the Officers of the Board	7
b. Fifteenth Annual Report of the Director	13
2. SCIENTIFIC PAPERS: —	
a. An ecological comparison of some typical swamp areas — <i>By Samuel Monds Coulter</i>	39
b. Two fungi growing in holes made by wood-boring insects. — <i>By Perley Spaulding</i>	73
c. An ecologically aberrant Begonia. — <i>By William Trelease</i>	79
d. Aberrant veil remnants in some edible agarics. — <i>By William Trelease</i>	83
3. LIBRARY CONTRIBUTIONS: —	
a. A list of books and papers published from the Missouri Botanical Garden or by its employees, or based chiefly on work done by aid of the facilities of the Garden, from January, 1899, to December, 1903, inclusive. — <i>By William Trelease</i>	87
b. A supplementary list of serial publications received at the library of the Missouri Botanical Garden — <i>By William Trelease</i>	98

LIST OF ILLUSTRATIONS.

Frontispiece: Museum gate house, from the lawn.

Pitcher plants — <i>Sarracenia Drummondii</i>	Facing p. 7
Bromeliad house — Air plants	“ “ 13
North American tract — Cat-tails and water	“ “ 23
Mexican house — <i>Oncidium luridum</i>	“ “ 26
Orchid blossoms — <i>Trichopilia suavis</i>	“ “ 30
East Indian house — <i>Nepenthes</i>	“ “ 35
Plates 1-24. Swamp vegetation	Following p. 72
Plates 25-27. Fungi following wood borers	“ “ 78
Plates 28-29. <i>Begonia unifolia</i>	“ “ 82
Plates 30-39. Veil characters of agarics	“ “ 86